

# List of All Chemicals

## P Wasabia japonica (Brassicaceae)

### Common name(s)

Japanese Horseradish; Wasabi

### How used

Food

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
4-PENTENYL-ISOTHIOCYANATE	Plant	--	--		Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
<b>Activities (1)</b>					
Antimutagenic					Economic & Medicinal Plant Research, 6: 235.
<b>Activities (3)</b>					
Anticancer					Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
Anticarcinomic					Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
Quinone-Reductase-Inducer					Fuke, Y., Haga, Y., Ono, H., Nomura, T., Ryoyama, K. 1998. Anti-Carcinogenic Activity of 6-methylsulfinylhexyl isothiocyanate, an Active Anti-Proliferative Principle of Wasabi ( <i>Eutrema wasabi Maxim.</i> ). Cytotechnology, 25: 197-203.
6-METHYLTHIOHEXANONITRILE	Plant	--	--		Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
7-METHYLTHIOHEPTANONITRILE	Plant	--	--		Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
ALLYL-ISOTHIOCYANATE	Plant	--	--		Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
<b>Activities (16)</b>					
Allergenic					
Antiasthmatic					
Antifeedant					Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antimutagenic					Economic & Medicinal Plant Research, 6: 235.
Antiseptic					
Cancer-Preventive					Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Counterirritant					Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Decongestant					Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Embryotoxic					Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Fungicide MIC=1.8-3.5 ug/ml					
Herbicide IC100=0.4 mM					Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Insectiphile					Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Mutagenic					Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Nematicovistat 50 ug/ml					Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pesticide					
Spice FEMA 1-80 ppm					Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
GLUCOBRASSICANAPIN	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<b>Activities (1)</b>					
Quinone-Reductase-Inducer 15 uM					Tawfig,N. Heaney,R.K.,Plumb,J.A.,Fenwick,G.R.,Musk,S.R.R.,Williamson,G.1995. Dietary Glucosinolates as Blocking Agents Against Carcinogenesis: Glucosinolate Breakdown Products Assessed Induction of Quinone Reductase Activity I.Carcinogenesis 16(5)119-1194

GLUCOPUTRANJVIN	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
MYROSINASE	Plant	--	--	Tucker, A. O. and Debaggio, T. 2000. The Big Book of Herbs. Interweave Press, Inc. Loveland, CO. 688 pp.
SINIGRIN	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

**Activities (7)**

Antifeedant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Larvicide	
Mutagenic	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pesticide	
Phagocytotic	Jacobson, M., Glossary of Plant-Derived Insect Deterrants, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Quinone-Reductase-Inducer 15 uM	Tawfig,N. Heaney,R.K.,Plumb,J.A.,Fenwick,G.R.,Musk,S.R.R.,Williamson,G.1995. Dietary Glucosinolates as Blocking Agents Against Carcinogenesis: Glucosinolate Breakdown Products Assessed Induction of Quinone Reductase Activity I.Carcinogenesis 16(5)119-1194